

## ABSTRACT OF THE DISCLOSURE

This invention provides a vapor heat insect killing apparatus for a Mediterranean fruit fly, an orange small fruit fly, a Queensland fruit fly and a melon fruit fly or the like, so as to prevent some thermal troubles by substantially setting in a concurrent manner an increasing reach time of each of the fruits stored in each of the fruit storing means to a predetermined fruit central temperature. The vapor supplying means and the heat exchanger means are controlled in reference to a sensed signal of the fruit temperature sensing means in the case that an increasing in temperature of the fruit central temperature in a certain fruit storing unit is delayed as compared with an increasing in temperature of the central temperature of the fruits in another fruit storing unit, a relative humidity of the saturated vapor passing in the fruit storing units storing the fruits where the increasing in temperature of the central temperature of the fruits is delayed is increased, a thermal conductivity is increased or a feeding amount of the saturated vapor passing in the fruit storing unit is increased, a heating calorie of the fruit is increased, the thermal conductivity is increased and increasing in the fruit central temperature is made fast.